Huawei switch optical module cannot be used

Overview

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard.

Key Takeaways

Huawei switches require Huawei-certified optical modules, and non-certified or incompatible modules may not function properly. Common CausesNon-Certified Optical Modules Huawei switches must use Huawei-certified optical modules. Non-certified modules may not pass interoperability tests, leading to service instability or failure to operate.

The switch may generate alarms for non-certified modules, especially in V200R001 or later versions, though these alarms do not always affect functionality. Fiber and Module Incompatibility Ensure that the fiber type matches the optical module: single-mode fibers with single-mode modules and multimode fibers with multimode modules. Mixing types can prevent the port from connecting and cause indicator lights to remain off.

Interface Speed Mismatch Do not use an optical module with a higher rate than the interface supports. For example, a 10G module on a 1G port will not function. Port Configuration Issues Check if the port is administratively down using the command: display interface xgigabitethernet0/0/2 If the port shows Administratively DOWN, it must be enabled before the module can operate.

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Optical Power Problems Measure the transmit and receive optical power using: display transceiver interface xgigabitethernet0/0/2 verbose Abnormal power levels may indicate contamination, faulty laser circuits, or module defects. Physical Installation Errors Ensure the module is correctly oriented and fully seated. If it cannot be inserted, rotate it 180° and try again.

Avoid touching the edge connector and install dust plugs on idle ports.

Troubleshooting Steps

Verify Certification: Confirm the module is Huawei-certified. Non-certified modules may need replacement. Reinstall Module: Remove and reinstall the optical module to ensure proper seating.

Check Software Version: Run display version and upgrade to V100R006C01SPC100 or later if necessary. Power Cycle: Reboot the switch or perform a power cycle if the module still does not work. Clean Optical Ports: Use a cotton swab to clean contaminated optical bores and cover idle ports with dust plugs.

Loopback Test: Connect the fiber jumper to the same module to test port functionality.

Additional Tips

Use commands like display interface brief to check link status and traffic statistics. If alarms appear for non-certified modules in V200R001 or later, you can disable them using the transceiver phony-alarm-disable command. Contact Huawei technical support if the module remains non-functional after all checks and replacements.

By following these steps, you can identify whether the issue is due to module certification, compatibility, configuration, or hardware faults and take appropriate corrective actions.

Article Content

Displaying Optical Module Information

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and size of some non-Huawei-certified switch optical modules do not

FAQs About Optical Modules

The switch must have optical modules certified for Huawei switches installed. Optical modules that are not certified for Huawei switches cannot ensure transmission reliability and may affect service

Troubleshooting for Optical Modules on Huawei Switch

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Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. If ...

Optical Module Solutions for Huawei S5700/S5720 Series Switches

Problem: All optical ports cannot be connected, and the indicator lights are not on. Solution: To solve this problem, you can follow these steps: Check if the fiber and optical modules

S210 Series Switches Installing an Optical Module

NOTICE A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper modules cannot ensure transmission reliability and may

How To View Optical Transceiver Information On Huawei Switches

Optical modules are commonly used in switches, network cards, routers and other communications equipment, in the process of using the optical module information can be read to

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The optical module cannot be installed in an optical interface because the optical module structure is non-standard. The structure and size of some non-certified optical ...

Common Non-Certified Optical Module Alarm Messages For Switches

Different vendors adopt different handling strategies for non-original or uncertified modules, such as prohibiting normal use, generating system alarms, or disabling partial interface

Huawei Optical Module Test Procedure

The purpose is to ensure that the optical modules we deliver do not have compatibility problems. We will test each batch of optical modules to avoid compatibility problems of switch to the greatest extent.

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

Huawei CloudEngine S6750-H Series 100GE Switches Datasheet

Huawei CloudEngine S6750-H Series 100GE Switches Datasheet Huawei CloudEngine S6750-H series 100GE switches are next-generation enterprise-class core switches that provide 36 x 100GE optical

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As organizations continue to embrace digital transformation, switches like the S5735-S48T4X play a crucial role in ensuring fast, secure, and efficient connectivity across all network layers. Huawei

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Introduction CloudEngine S5732-H hybrid optical-electrical switch is brand-new full-10GE switch developed by Huawei for the Wi-Fi 6 era. The CloudEngine S5732-H builds on Huawei''s unified

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Tired of frustrating network cabling issues? dealing with alarm-triggering optical modules, sky-high packet loss, and endless incompatibility issues after three replacements? don''t put up with it

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